© EPODOC / EPO

PN JP59030716 A 19840218

PD 1984-02-18

PR JP19820137438 19820809

OPD 1982-08-09

TI METHOD FOR UTILIZING ALUMINUM ASH

IN UMEHARA YOSHIO; MINAMIDA TOMEO; TSUJI KOUICHIROU

PA - SHOWA KOKIKK

IC C01B3/08; C01B33/28

6 WPL/ DERWENT

ΤI - Utilisation of aluminium ash - by treating with caustic soda, adding sodium silicate to give zeolite, then diluting and precipitating aluminium hydroxide

PR JP19820137438 19820809

PN - JP59030716 A 19840218 DW 198446 006pp

PA - (SHOW-N) SHOWA KOKI KK IC

C01B3/08; C01B33/28

- J59030716 The ash is dissolved in 10-50% NaOH soln. so that sodium aluminate is produced then (1) sodium silicate is added and synthetic zeolite is produced and the gas evolved when the sodium aluminate is produced is recovered; (2) the sodium aluminate is diluted with water and a seed crystal is added to ppte aluminium hydroxide and the gas emitted when the sodium aluminate is produced is recovered. When the sodium aluminate is produced, at least 1 of the following cpds. is pref. added: gluconic acid or alkali gluconate, tartaric acid or alkali tartrate, triethanolamine, or sorbit (sic).

- USE/ADVANTAGE - Aluminium ash (prim., sec. and tert. ash) which used to be discarded (e.g. into sea etc) with high cost is now utilised.(0/1)

OPD - 1982-08-09

AB

ΑP

IN

AB

ΑN 1984-284390 [46]

O PAJ / JPC

PΝ JP59030716 A 19840218

PD 1984-02-18

JP19820137438 19820809

UMEHARA YOSHIO; others: 02

PA - SHIYOUWA KOUKI KK

TI - METHOD FOR UTILIZING ALUMINUM ASH

> - PURPOSE:To utilize effectively aluminum ash by dissolving the ash in an aqueous soln. of NaOH to form sodium aluminate while recovering generated gas and by adding sodium silicate to the resulting soln, to convert the sodium aluminate into zeolite.

- CONSTITUTION: Aluminum ash produced as a by-product during the refining of Al or an Al alloy is dissolved in an aqueous soln, of NaOH having 10-50% concn., and water is added to dilute the soln. about 1.5-2 times. After adding gluconic acid, alkali gluconate, sorbitol or the like as required, the soln. is allowed to stand and filtered to remove insoluble matter. Sodium silicate is added to the resulting filtrate (sodium aluminate soln.), and zeolite is formed by vigorous stirring for about generated during the formation of sodium aluminate is recovered and utilized. The gas consists of about 90-99.9% H2, about 0.1-2% CH 4 and the balance NH 3.

- C01B33/28; C01B3/08

none

none